THE

Annual Report

OF THE

SANITARY CONDITION

OF THE COUNTY BOROUGH OF HANLEY,

INCLUDING THE

Vital Statistics for the year 1897,

Submitted to the Sanitary Committee

BY

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Annual Report

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Medical Officer of Health

TO THE MAYOR, ALDERMEN, AND BURGESSES OF THE COUNTY BOROUGH OF HANLEY.

Gentlemen,

I have the honour to present you with my Annual Report on the Sanitary condition of the County Borough of Hanley, for the year ending December 31st, 1897.

Area.—The County Borough of Hanley, for the purposes of registration, is divided into two districts: Hanley, 590 acres; Shelton, 1,178 acres; being a total of 1,768 acres.

Population.—The enumerated population of Hanley in 1881, was—Hanley, 22,418; Shelton, 25,943; total, 48,361. By the census of 1891, the population was—Hanley, 25,618; Shelton, 29,328; total, 54,946. Assuming that the rate of increase which prevailed between the two last census enumerations is still maintained, I find that the estimated population for the middle of 1897, will be:—

Hanley	27,846
Shelton	31,664
Total for the Borough ...	59,510

This estimate is made on the supposition that the increase of population would be in the same proportion as in the last decade, but if we take the actual excess of births over deaths, since the last census, viz.:—2,965 in Shelton, and 2,808 in Hanley, the population would be 60,719, or 1,209 over the estimate.

The birth and death rates are calculated on the estimated population, 59,510.

The number of inhabited houses in the Borough was in the middle of 1897 :—

Hanley	5,772
Shelton	7,301

Empty houses, 167.

Births.—The Births registered in Hanley were 1,043; Shelton, 1,071; total, 2,114; being an increase of 23 on the number registered in 1896.

This increase in the births was in the Hanley district, there were in Hanley 1,043 births in 1897, an increase of 59; in Shelton there was a decrease of 36 births compared with 1896.

The birth rate is 35·5 per 1,000 of the estimated population.

The birth rate of the 33 largest towns was 30·7 per 1,000.

The birth rate in 1896 was 35·6.

Of the 2,114 Births, 1,070 were males, 1,044 were females.

The births out of wedlock were 96, being equal to 4·5 per cent. of the total births.

The percentage of illegitimate children in the preceding year was 4·4.

The number of illegitimate births in Hanley, as in other thickly populated towns, is increased by the fact that many single young women leave the rural districts, where they are known, to be confined in the towns.

The sex proportion of children born was 102·4 males to 95·6 females.

In the preceding year there were born 99·4 males, to 100·5 females.

Deaths.—I have appended to this Report a Table of Deaths, occurring in Hanley and Shelton during the year 1897, classified according to diseases and ages.

The records show that 602 deaths were registered in Hanley, and 604 in Shelton, making a total of 1,206. In 1896 there were 1,282; in 1895, 1,073; in 1894, 986; in 1893, 1,156; in 1892, 1,177; in 1891, 1,244.

The death rate is 20·2 per 1,000 for the whole Borough. In Hanley the death rate is 21·6, in Shelton 19·1.

In 1896 the death rate for the Borough was 21·8; in 1895, 18·5; in 1894, 17·2; in 1893, 20·2; in 1892, 20 1; in 1891, 22·3.

The death rate for the 33 largest English towns was 19·1, ranging from 13·1 in Croydon, to 24·4 in Liverpool.

Death rate for last 10 years, 1887 to 1896, was 19·9.

The Zymotic death rate was 3 per 1,000. In 1896 it was 3·9; 1895, 2; 1894, 2·1; 1893, 4·1; 1892, 3; 1891, 3 3.

In Hanley the Zymotic death rate was 2·5, in Shelton, 3·4.

The two principal causes of death from Zymotic diseases were Whooping Cough, in the beginning of the year, and Diarrhœa and English Cholera in August.

The Zymotic death rate in Hanley is lessened by the fact that the greater number of Scarlet Fever cases are removed to the Hospital at Bucknall, and several of the patients suffering from Typhoid Fever were taken to the N. S. Infirmary.

The deaths of children under one year, to 1,000 births, are 202. In Hanley 217, in Shelton 196.

In the 33 largest towns there were 177 under one year to 1000 births.

In 1896 the deaths of children under one year, to 1,000 births, were 213; in 1895, 197; in 1894, 188; in 1893, 195; in 1892, 201; in 1891, 189.

This heavy Infant mortality is one, amongst others, of the disabilities attending adult female labour.

It is impossible for women to be at the same time the bread-winners and the guardians of the hearth.

Causes of Death.—Of the deaths from Zymotic Diseases, there were:—

Measles	5
Scarlet Fever	11
Diphtheria	10
Membranous Croup	1
Whooping Cough	56
Typhoid Fever	8
Diarrhœa and Dysentery	76
English Cholera	9
Puerperal Fever	5
	181

The deaths from Bronchitis, Pneumonia and Pleurisy were 195; in 1896, 270; in 1895, 177; in 1894, 220; in 1893, 241; in 1892, 301; n 1891, 285.

Deaths from Phthisis	were 63,	rate per 1,000,	1·06.
,,	,, in 1896, 63,	,,	1·07.
,,	,, in 1895, 59,	,,	1·01.
,,	,, in 1894, 51,	,,	0·88.
,,	,, in 1893, 74,	,,	1·3.
,,	,, in 1892, 66,	,,	1·07.
,,	,, in 1891, 70,	,,	1·2.

In the Hanley district there were 29 inquests and 9 uncertified deaths.

In Shelton 36 inquests and 9 uncertified deaths.

Total for the Borough, 65 inquests, and 18 uncertified deaths.

Notifications of Infectious Diseases.—During the year I have received the following notifications of Infectious Diseases :—

Scarlet Fever	216
Diphtheria	37
Membranous Croup...	2
Enteric or Typhoid	64
Continued Fever	13
Puerperal Fever	13
English Cholera	1
Erysipelas...	45
Measles	107
	498

In	1891	1892	1893	1894	1895	1896	1897
Small Pox	...	...	7	...	4	...	...
Scarlet Fever ...	205	85	215	270	199	284	216
Diphtheria	22	23	31	26	42	36	37
Membraneous Croup	3	2	14	17	15	5	2
Enteric or Typhoid	110	69	159	46	67	91	64
Continued Fever	17	12	31	15	23	17	13
Puerperal Fever...	5	3	10	4	4	6	13
Erysipelas	37	49	62	52	58	40	45
Measles	1,027	124	956	33	169	1,356	107
English Cholera ...	...	...	...	...	...	1	1
	1,426	367	1,485	463	581	1,836	498

Fortunately there has been no case of Small Pox notified during 1897, for the Local Government Board Authority has forbidden the admission of any cases of Small Pox to the Hospital at Bucknall.

The Hospital at Bucknall was originally built to isolate cases of Small Pox, and was usually known as the Small Pox Hospital. This decision of the Local Government Board, will necessitate fresh steps being taken if we are to be prepared to deal with an Epidemic of Small Pox.

The opposition to Infantile Vaccination, and the fact of some practitioners in the district vaccinating children with only one insertion instead of four, add facilities to the spread of Small Pox.

A certain number of totally unvaccinated persons in the community, and a large number of imperfectly protected individuals, with no isolation Hospital to remove first cases to, leaves us almost totally unprepared to cope with Small Pox, if it should invade us.

As in former years, Scarlet Fever of a mild type has been very prevalent in the Borough.

Of the 216 cases notified, 159, or more than two-thirds, were removed to the Hospital at Bucknall.

We have now very little difficulty in gaining the consent of parents to the removal of children to the Hospital.

However, another impediment to proper isolation exists, and that is, on several occasions the Hospital has been full, and children who could not be properly isolated, have had to remain at home until there were beds vacant.

11 deaths took place in Hanley; among the 159 cases removed to the Hospital, at Bucknall, there were 7 deaths.

The death rate in cases unremoved was 19·2 per cent. of those notified; in 1896 it was 11·0. In cases removed to the Hospital the death rate was 4·4. The general death rate was 8·3.

Measles, at present, is notified voluntarily by the medical men of the town.

Measles.—There were 107 cases of Measles notified in 1897, distributed as following:—

January	2
February	0
March	0
April	0
May	1
June	0
July	2
August	4
September	3
October	1
November	53
December	41
	107

There being several cases of Measles amongst the children attending the Northwood National Schools, it was deemed expedient to close the School for four weeks, from December 1st. The holidays commencing on the 23rd of December and lasting three weeks, the School was closed for nearly seven weeks; this appeared to have a very good effect in lessening the spread of the Epidemic.

The deaths from Measles were as follows:—

	Hanley	Shelton	Total
Under 5	5	0	5
Over 5	0	0	0
	5	0	5

Typhoid Fever.—As I have stated in previous Reports, Typhoid Fever appears to be endemic in the Pottery towns. In 1897 there were 64 cases of Typhoid Fever, and 8 deaths; they occurred in the following order:—

	Cases	Deaths
January	8	0
February...	9	1
March	9	0
April	2	0
May...	4	2
June	3	0
July...	0	0
August	1	1
September	3	0
October	6	3
November	9	0
December	10	1
	64	8

Cases of Typhoid Fever notified since 1891:—In 1891, 110; in 1892, 69; in 1893, 159; in 1894, 46; in 1895, 67; in 1896, 91; in 1897, 64.

In Hanley, at present, there are cesspool privies, Rochdale pans, hand-supplied water closets, slop water closets, and water closets with flushing cisterns.

In proportion, the Typhoid cases were distributed as follows: most numerous, with Rochdale pans, next hand-fed water closets, next, slop water closets, next, water closets with flushing cisterns, next, cesspool privies.

12 of the cases of Typhoid Fever occurred in six houses, two in each house.

14 of the patients with Typhoid Fever were removed to the N. S. Infirmary.

I have been able to start a system of dealing with Typhoid Fever excreta where there are Rochdale pans, by providing perfectly air-tight receptacles to receive the excreta. These vessels are removed daily, and the contents burnt.

Several of the patients had been eating mussels and oysters. I wrote to the Medical Officer of Health of the locality where most of the mussels were brought from, but was informed by him that the surroundings of the mussel beds were perfectly sanitary, and that they were not exposed to sewage contamination.

Diphtheria.—There were 37 cases of Diphtheria notified during the year, one more than in 1896.

In all cases of infectious disease notified to me, I have caused notices to be sent to the Schools, to exclude the children of those households from School for a stated time.

I also, in each case, sent notice to the Free Library to discontinue supplying books to the infected household, and to send any books previously supplied, to the Sanitary Office, to be disinfected.

Diarrhœa.—There were 76 deaths from Diarrhœa, principally infantile, and 9 from English Cholera. Under five, 82; over five, 3.

The Bakehouses in Hanley have all been inspected, and are in a very fair condition.

Lodging-houses.—The Lodging houses are fairly clean.

Housing of the Working Classes Act, 1890.—Under this Act, notices have been served on the landlords of the following houses in the Borough :—

9, 11, 13, 15, 17, Durham Street
42, Cobridge Road
3, Paddock Street

I have appended to this Report two tables, A and B, drawn up by the direction of the Local Government Board, which will repay careful perusal.

Table A gives the different deaths at groups of ages; also all the deaths from the principal causes, distinguishing deaths of children under five years of age.

Table B gives population, births, and new cases of infectious sickness coming to the knowledge of the Medical Officer of Health, classified according to diseases, ages and localities.

I have also appended a list of the streets in Hanley in which cases of infectious disease existed. The streets which had cases of Typhoid Fever in them are printed in Red Ink.

Smoke Inspection.—During the year the Inspector has made 195 observations, and served 39 notices for the abatement of the smoke nuisance.

In compliance with Sec. 3 of the Factory and Workshop Act, 1891, there have been 89 workshops notified to H.M. Inspector of Factories for the district.

Factory and Workshops Acts :—

No. of Workshops visited	343
No. of men employed	407
No. of young persons employed ...	323
No. of women employed	345
No. of Sanitary defects found... ...	129

Shop Hours Acts :—

No. of Shops visited	412
No. of young persons employed ...	207

In accordance with a resolution of the Committee, I visited the Congress of the Sanitary Institute at Leeds, in company with the Chairman and the two Sanitary Inspectors.

The Destructor they have is a great improvement on our refuse tips, and I am glad to know that Hanley is soon to be provided with an efficient Destructor.

I beg to thank the Members of the Sanitary Committee for their courtesy and kindness to me, and the Officials for their very able and valuable co-operation, and remain,

Your obedient servant,

J. CLARE,

Medical Officer of Health.

LIST OF STREETS,

With the number of Scarlet Fever, Diphtheria, Typhoid Fever and Measles Cases notified in the same during 1897.

Name of Street	No. of Cases of Scarlet Fever	No. of Cases of Diphtheria	No. of Cases of Typhoid Fever	No. of Cases of Measles
Ashford street	2	...	1	...
Avery street	2	...	1	...
Abbey road	2	...	...	...
Argyle street...	3	...	...	...
Arthur street...	1	...	...	...
America street	...	...	...	1
Austin street	1	...	1	...
Albert street	...	1	...	1
Albert place	...	...	...	1
Adelaide street	...	...	2	...
Boughey road...	...	1	...	...
Bagnall square	...	...	4	...
Bagnall street...	2	...	...	...
Bryan street	8	...	5	...
Botteslow street	4	...	...	1
Broom street	5	...	...	1
Bethesda street	2	...	...	...
Brighton street	2	...	...	...
Bath street	1	...	...	...
Berkeley street	6	...	1	...
Boundary street	1	...	...	...
Broad street	1	...	...	...
Bateman place	1	...	...	...
Brown street	1	...	...	...
Beresford street	...	...	...	1
Bucknall new road	4	...	1	1
Bucknall old road	...	...	1	...
Birch street	...	...	...	3
Bow street	...	...	1	1
Bold street	5	...	...	2
Brook street	...	1	...	1
Bright street	...	...	...	1
Chapel street	1	...	...	...
Chell street	2	...	...	...
Cambridge street	...	...	2	...
Cauldon road...	1	...	...	...
Compton street	1	...	...	...
Cannon street	2	...	...	...
Chester street	1	...	...	...
Chatham street	1	...	...	1

LIST OF STREETS—*(Continued).*

Name of Street	No. of Cases of Scarlet Fever	No. of Cases of Diphtheria	No. of Cases of Typhoid Fever	No. of Cases of Measles
Commercial road	2	1	...	1
Clifton street	...	...	...	2
Clive street	1	...	...	1
Charles street...	5	1	1	1
Cobridge road...	...	...	1	...
Church street...	2	...	1	1
Durham street	1	...	...	...
Denbigh street	2	...	...	...
Dale street	2	...	...	2
Derby street	3	1	...	1
Dresden street	1	...	...	...
Etruscan street	2	...	...	...
East view	2	...	...	1
Elizabeth street	3	...	...	2
Etruria vale	...	...	...	1
Etruria road	...	...	1	...
Edmund street	1	...	...	...
Eagle street	1	...	...	...
Fenton road	1	...	...	...
Fishpool walk...	1	...	...	...
Franklyn street	3	1	1	...
Ford street	1	2	1	...
Festing street	2	...	...	...
Gilman street	3	...	...	1
Grove place	2	...	1	1
Garibaldi street	...	...	2	...
Grosvenor street	1	...	...	...
Greville street	...	1	...	...
Gill street	2	1	...	...
Gower street	1	...	...	...
George street	...	...	1	...
Grafton street...	...	...	...	1
Harrop street...	...	...	2	1
Hassall street...	3	...	...	...
Hammersley street... ...	...	...	1	...
Henry street	1	...	...	...
Hanover street	1	...	...	...
Hind street	2	...	...	...
Hawkesmore street ...	...	...	...	1
Harley street	...	1	1	...
Hope street	1	...	...	1
Hampton street	1	...	1	...
Heath street	...	1		...

LIST OF STREETS—*(Continued).*

Name of Street	No. of Cases of Scarlet Fever	No. of Cases of Diphtheria	No. of Cases of Typhoid Fever	No. of Cases of Measles
Hill street	...	1	...	1
High street	4	...	...	2
Ivy House road	2	...	...	...
Jordan street	1	...	...	...
Jasper street	1	...	...	...
Jervis street	...	...	...	1
Keelings lane	3	1	2	6
Leonard road	3	...	...	1
Lichfield street	5	1	...	...
Little Frederick street ...	1	...	...	...
Lord street	3	...	1	1
Longfield terrace	...	...	1	...
Lincoln street...	7	...	...	1
Leek road	3	1	1	...
Loftus street	...	1	...	...
Ludlow street...	1	1	...	3
Market street...	1	...	1	...
Market square	...	...	1	...
Milton street	1	...	...	...
Mollart street...	3	...	...	...
Mayer street	1	1	...	1
Mayer street, lower ...	1	...	...	5
Mount street	4	1	...	1
Meadow street	...	...	...	2
Margaret street	...	...	...	2
Marsh street	...	...	...	1
Moston street	...	...	...	1
Melville street	...	...	...	2
Mount Pleasant	...	1	...	...
Newlands street	1	1	...	...
Nelson place	...	...	2	...
North street	1	...	...	1
Newcastle road	2	...	...	...
Oak street	1	...	...	2
Old Hall street	3	...	...	...
Palmerston street	4	...	...	...
Picton street	3	...	...	1
Peel street	1	...	...	5
Prime street	...	...	...	1
Paddock street	5	...	...	...
Pelham street...	3	...	...	...
Plough street	...	...	1	...
Pyenest street...	2	...	...	...

LIST OF STREETS—*(Continued).*

Name of Street	No. of Cases of Scarlet Fever	No. of Cases of Diphtheria	No. of Cases of Typhoid Fever	No. of Cases of Measles
Peace street	1	...	1	2
Pall Mall...	...	...	...	1
Queen Anne street... ...	1	...	...	...
Rectory street...	1	...	...	...
Rectory road	...	...	...	1
Rose street	1	3	...	5
Sandon street...	1	...	1	...
Seaford street...	...	...	1	...
St. Luke street	1	...	...	...
St. Clare street	1	...	...	...
Snow Hill	2	...	...	...
St. James street	...	2	...	...
St. Mark street	5	...	2	...
Stedman street	2	...	1	...
School street	1	...	1	...
St. John street	3	2	1	2
Simpson street	...	...	1	1
Salem street	1	1	...	...
Sydney street...	...	...	1	...
St. Ann street...	...	...	...	1
Seymour street	2	...	1	...
Stanley street...	1	1	...	...
Twemlow street	...	...	1	...
Talbot street	2	...	...	1
Thomas street	...	...	1	...
Toll street	1	...	...	...
Turner street	...	...	...	1
Trafalgar street	3	...	3	...
Union street	1	...	...	...
Victoria street	1	...	1	3
Vincent street	1	...	...	3
Vine street	1	...	...	...
Well street	3	...	...	2
Wellington road	5	2	...	3
Whitmore street	...	...	...	1
Ward street	...	...	...	3
Wellesley street	1	1	...	...
William street	2	...	...	...
Windsor street	1	1	...	...
Wood street	1	...	...	...
West street	...	...	1	1
Windmill street	...	...	1	...
York street	1	...	...	...

TABLE A.

Showing DEATHS during the year 1897, in the Hanley Urban Sanitary District of Staffordshire, classified according to Diseases, Ages, and Localities.

Locality	Mortality from all causes at subjoined ages								Mortality from subjoined causes, distinguishing deaths of children under five years of age.															
	At all ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards		Scarlatina	Diphtheria	Membranous Croup	Fevers: Enteric or Typhoid	Fevers: Puerperal	Cholera	Measles	Whooping Cough	Diarrhœa and Dysentery	Rheumatic Fever	Phthisis	Bronchitis, Pneumonia and Pleurisy	Heart Disease	Injuries	All other Diseases	Total
Hanley ... Total	602	228	77	21	29	165	82	Under 5	5	3	...	...	...	6	5	18	25	...	1	40	...	1	201	305
								5 upw'ds	1	1	...	4	2	...	...	...	1	...	24	69	30	15	150	297
Shelton ... Total	604	210	80	19	22	188	85	Under 5	4	4	...	...	...	1	...	38	50	1	1	30	2	5	156	292
								5 upw'ds	1	2	1	4	3	2	...	...	...	...	37	56	38	20	148	312
Totals ...	*1206*	*438*	*157*	*40*	*51*	*353*	*167*	Under 5	9	7	...	...	...	7	5	56	75	1	2	70	2	6	357	597
								5 upw'ds	2	3	1	8	5	2	...	...	1	...	61	125	68	35	298	609

TABLE B.

Showing Population, Births, and New Cases of Infectious Sickness coming to the knowledge of the Medical Officer of Health, during the year 1897, in the Urban Sanitary District of Hanley; classified according to Diseases, Ages and Locality.

Locality	Census 1891	Estimated to middle of 1897	Registered Births	Aged under 5 or over 5	New Cases of Sickness in each locality, coming to the knowledge of the Medical Officer of Health									Number of such Cases Removed from their Homes in the several Localities for treatment in Isolation Hospital		
								Fevers								
					Scarlatina	Diphtheria	Membranous Croup	Enteric or Typhoid	Continued	Puerperal	Cholera	Erysipelas	Measles	Scarlatina	Diphtheria	Membranous Croup
Hanley	25,618	27,846	1,043	Under 5	49	9	1	2	2	...	...	6	75	31	1	1
				5 upwards	83	15	...	24	7	5	...	21	18	63	2	...
Shelton	29,328	31,664	1,071	Under 5	44	5	...	1	...	...	...	1	11	20	...	...
				5 upwards	60	8	1	37	4	8	1	17	3	45	...	...
Totals ...	54,946	59,510	2,114	Under 5	93	14	1	3	2	...	...	7	86	51	1	1
				5 upwards	143	23	1	61	11	13	1	38	21	108	2	...

SUMMARY OF WORK.

No. of Special Complaints	411
„ Nuisances Found	2,300
„ „ Abated	1,986
„ Notices Served	1,018
„ Privy Conversions	164
„ References to Borough Surveyor and Water Office	328
„ Smoke Observations Taken	195
Infected Houses.	
No. of Infectious Cases Visited	571
„ „ „ Removed	164
„ Infectious Houses Fumigated	450
„ „ Articles Disinfected	5,088
House Inspection.	
No. of Houses Inspected	2,034
Proceedings under the Sale of Food and Drugs Act.	
No. of Samples Purchased for Analysis...	114
„ „ Adulterated	1
Margarine Act.	
No. of Visits to Shops	195
„ Samples Analysed	0

SAMPLES TAKEN

Under the Sale of Food and Drugs Act.

26	of Milk	Adulterated	0
3	„ Lard	„	0
20	„ Butter	„	0
9	„ Ground Ginger...	„	0
7	„ Lump Ginger	„	0
10	„ Coffee	„	0
2	„ Rum	„	0
2	„ Cayenne Pepper	„	0
4	„ Pepper	„	0
2	„ Yeast	„	0
1	„ Magnesia	„	0
2	„ Tartaric Acid	„	0
4	„ Whisky	„	0
1	„ Citrate of Magnesia	„	0
3	„ Mustard	„	0
3	„ Vinegar	„	0
3	„ Oatmeal	„	0
1	„ Ale	„	0
4	„ Cinnamon	„	0
1	„ Lemon Squash	„	0
5	„ Ground Rice	„	0
1	„ Rice Flour...	„	0